

Introduction:

The DeKalb-Peachtree Airport (PDK) is located in a highly-sensitive, aircraft noise area as the airport is surrounded by residential communities. Aircraft noise is noise pollution produced by any aircraft or its components. Noise pollution occurs during all phases of flight. While aircraft are on the ground, the operation of auxiliary power units, taxiing, or run-ups from propeller and jet take-offs can contribute to noise pollution to the surrounding areas. While aircraft are in the air, noise pollution can occur underneath and to the sides of departure and arrival paths.

The primary goal of the PDK Good Neighbor Program is to serve as a community-based program with aims to reduce aircraft noise levels in the vicinity of the airport. Since its inception, the program has sought to bring awareness and develop airport/ community partnerships with the surrounding cities of Chamblee, Doraville, Dunwoody, Brookhaven, North Atlanta (including the Buckhead community), and others. The program is a multifaceted one that uses many approaches to convey information in a succinct manner.

The program strives to reduce overall aircraft noise disturbances by soliciting airport user involvement in reaching and maintaining this goal. Community and airport participation, learning, and cooperation are the keys to the program's success.

The purpose of this report is to provide a monthly summary to the airport community and interested persons on airport operations; noise disturbances, and impacts to the surrounding neighborhoods.

Aircraft Operations:

	This Month	This Month, Last Year (2016)	% Change from December 2016	5-Year Average for Month				
Total Operations	10,576	10,269	+2.99%	10,384				
Itinerant	8,275	8,183	+1.12%	8,140				
Local	2,301	2,446	-5.93%	2,316				
Voluntary Curfew Ops	281	249	+12.85%	258				
Prior Authorization (75,000 Pounds)	15	(0) Noise disturbance calls were associated with these flights.(0) Voluntary curfew ops were associated with these flights.						

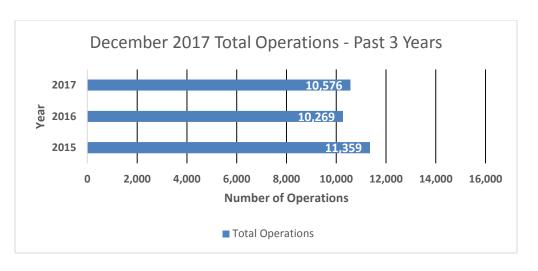
Prior Authorization Aircraft certified by the FAA with a max gross take-off weight greater

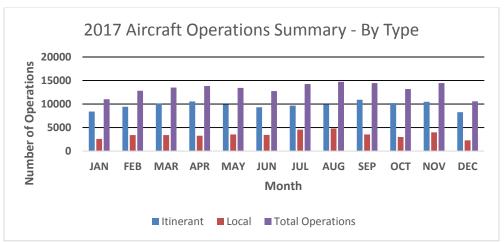
(Section 6-93 Code) than 75,000 pounds

Operation One take-off or landing. Touch-and-go counts as two operations

Itinerant Non-touch-and-go (regular operations)
Local Operations within 20 miles of Airport

Voluntary Curfew Ops Operations that occur during the hours of (11:00 p.m. and 6:00 a.m.)





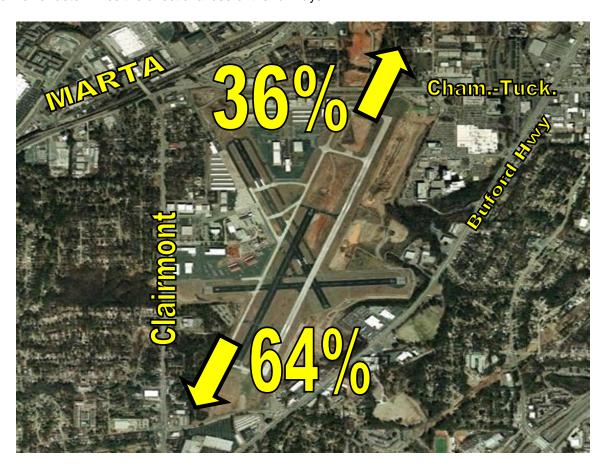
2017 Aircraft Operations Summary Chart

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Oct	Nov	Dec
Itin.	8,418	9,426	10,087	10,561	9,898	9,311	9,679	9,821	10,926	10,209	10,492	8,275
Local	2,597	3,406	3,415	3,277	3,547	3,439	4,564	4,800	3,540	2,994	3,983	2,301
Curfew	282	310	353	329	396	318	263	343	493	400	290	
Total Ops	11,015	12,832	13,502	13,838	13,445	12,750	14,243	14,721	14,466	13,203	14,475	10,576

2016 Total Operations	2016 Total Operations as of December 2016	Total 2017 Ops as of December 2017
158,441	158,441	159,066

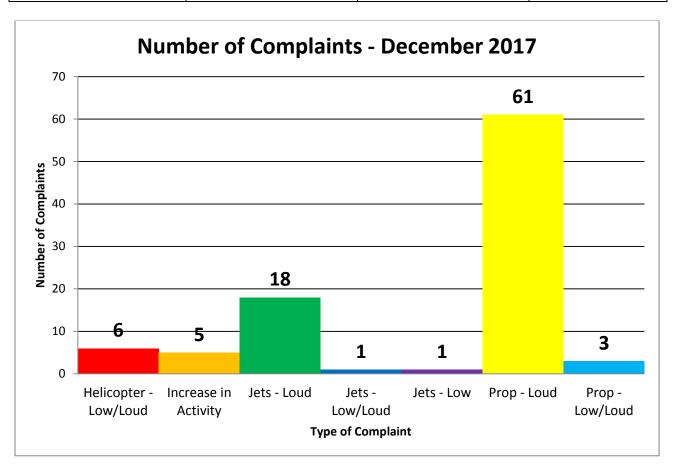
Runway Mode of Operations – December 2017

Directional use of runways has a major effect on flight patterns and the areas affected by flight operations. Weather and wind direction generally determines runway selection. When the tower is open, the FAA Air Traffic Control Tower determines the directional use of the runways.

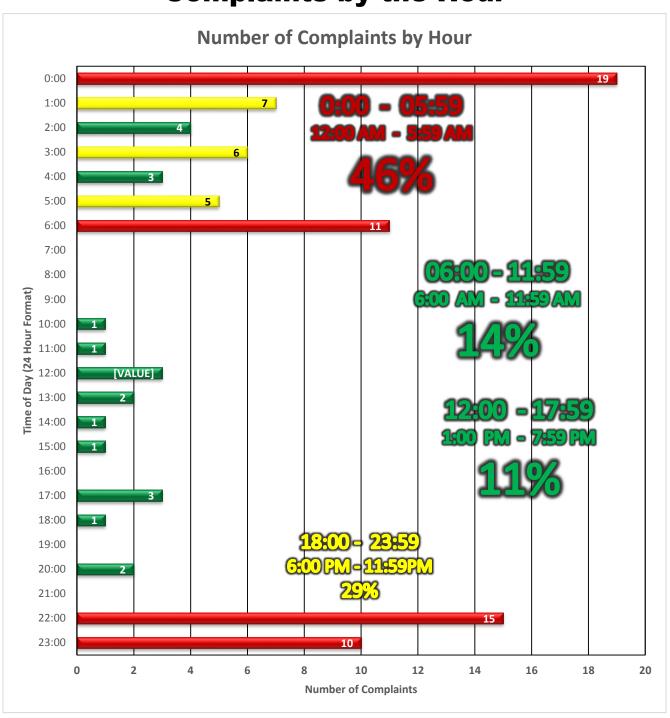


Noise Disturbance Summary

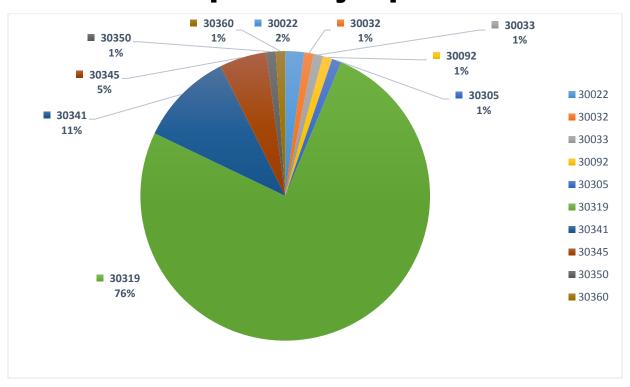
Total complaints for the month	Monthly Complaint Average 2017	December Complaints per Household (minus top	December Complaints per Household
		two/Households)	All Inclusive
95	88	1.3	4.5



Complaints by the Hour



Complaints by Zip Code

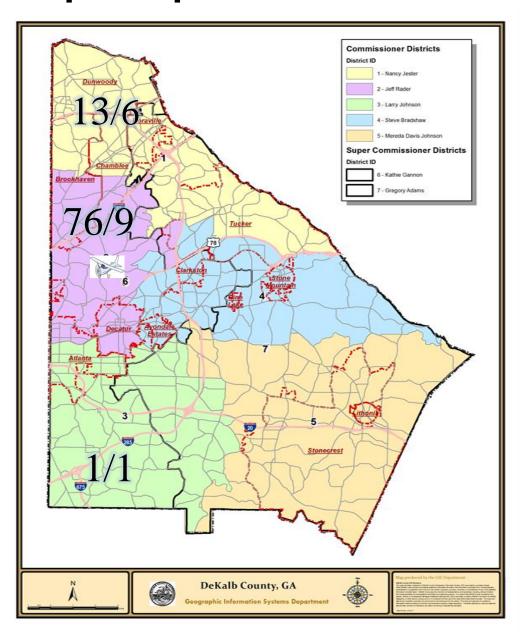


	Zip Code Guide								
Zip Code	Community	% of Complaints							
30022	Alpharetta/John's Creek	2%							
30032	Decatur/Candler-McAfee	1%							
30033	North Decatur	1%							
30092	Peachtree Corners	1%							
30305	Buckhead	1%							
30319	Brookhaven	76%							
30341	Chamblee	11%							
30345	Chamblee	5%							
30350	Sandy Springs	1%							
30360	Dunwoody	1%							

Complaints by Caller

Name	Address	City	Zip Code	# of Complaints
Anonymous	Skyland Trail	Brookhaven	30319	65
Sheffield	1920 Gainsborough Dr	Chamblee	30341	6
Fox	2423 Woodacres Dr NE	Chamblee	30345	3
Floyd	3622 Carmel Rd	Chamblee	30341	3
Rodrigues	1029 Fairway Estates	Brookhaven	30319	2
Anonymous	Anonymous	Decatur	30032	1
Williams	1925 Monticello Ct	Sandy Springs	30350	1
Pearson	96 Peachtree Mills Ave	Atlanta	30305	1
Mann	6544 Deerings Ln	Norcross	30092	1
Meridith	Unknown	John's Creek	30022	1
Terry	2652 Cove Circle NE	Brookhaven	30319	1
Nagel	3905 Winters Hill Drive	Atlanta	30360	1
McCoy	1902 Canmont Dr	Brookhaven	30319	1
Chilivis	2352 Logan Circle NE	Brookhaven	30319	1
Ruoff	4425 Pemberton Cove	Atlanta	30022	1
Davis	Anonymous	Chamblee	30341	1
Anonymous	Sagamore Hills Dr	Decatur	30033	1
Anonymous	Warwick Circle NE	Chamblee	30345	1
Hays	2527 Skyland Dr	Brookhaven	30319	1
Ruben	2039 Drew Valley Rd	Brookhaven	30319	1
Anonymous	Woodacres Dr NE	Chamblee	30345	1

Complaints per Commission District



Total Number of Complainants

Total Number of Complaints

95/ 21

5 complainants' addresses were **not in DeKalb County** (representing 5 complaints)

Correlation Chart of Noise Complaints to Operations

Chart Legend:

= Complaint + high noise event = Complaint + curfew operation
= Complaint + high noise + curfew operation

The airport correlated 86 (90.53%) out of 95 complaints:

- 75 or 78.95% of the noise complaints were found to be **Direct** correlations complaints;
- 11 or 11.58% were **Indirect** correlations to operations; and
- 9 or 9.47% were Not Correlated.
- **Direct** = Linked to a **specific flight operation to/ from PDK** over a house/monitor (NOMS or manual correlation).
- Indirect = Not linked to a specific flight operation (take-off thrust, reverse thrust; maintenance runups) OR flight operation not originating or terminating at PDK.
- Not correlated = There was no noise event and/or aircraft track based on either NOMS correlation or manual research.

Definitions:

NOMS: Noise and Operations Monitoring System

Name: Name of Complainant

Offense Start: Date/Time of offense to complainant

Flight Time: Actual Date/Time of correlated offense

Rwy: Runway

Op: Operation; **Approach**, **D**eparture, or **O**verflight

Equip: Type of Aircraft

Flight ID: Tail number of aircraft or military call sign

NMS: Noise Monitoring Station

LMAX: Maximum A-weighted sound level for a given event

Name	Reported Offense Time	Correlated Flight Time Recorded	Rwy	Op Type	Aircraft Type	Flight ID	NMS	Lmax
Mann	12/1/2017 0:00	Inc. in Activity	21L	Α			-	
Anonymous	12/1/2017 4:41	4:41:43	21L	D	PC12	N373KM	NMS 3	70.4
Rodrigues	12/1/2017 11:02	12/1/2017 11:02	21L	D	FA20	N470FJ	NMS 2	80.7
Pearson	12/1/2017 13:45	12/1/2017 13:40	21L	D	H25A	N406J	-	
Ruoff	12/1/2017 15:02	Inc. in Activity	21L	Α				
Anonymous	12/1/2017 22:49	12/1/2017 22:49	21L	D	BE58	N552CK	-	
Nagel	12/1/2017 23:00	Inc. in Activity	21L	Α			-	
Anonymous	12/2/2017 0:23	12/2/2017 0:23	21L	D	PA44	N3005D	NMS 3	73.4
Anonymous	12/2/2017 0:31	12/2/2017 0:30	21L	Α	C68A	N763JA	NMS 1	80.9
Anonymous	12/2/2017 0:56	12/2/2017 0:56	21L	D	C68A	N763JA	NMS 3	73.3
Anonymous	12/2/2017 4:00	12/2/2017 4:00	21L	D	PC12	N373KM	NMS 3	70.3
Anonymous	12/2/2017 5:04	12/2/2017 5:04	21L	D	C560	N691ES	NMS 3	76.1
Anonymous	12/2/2017 22:01	12/2/2017 22:01	21R	D	C414	N500AA	NMS 2	70.2
Anonymous	12/2/2017 22:16	12/2/2017 22:17	21R	D	M20T	N4SR	NMS 3	73.8
Anonymous	12/2/2017 23:40	12/2/2017 23:40	21R	D	UNK	UNK	NMS 3	83.7
Anonymous	12/2/2017 23:50	12/2/2017 23:40	21L	D	BE58	N58WH	NMS 3	83.7
Anonymous	12/2/2017 23:50	12/3/2017 0:02	3R	Α	UNK	UNK	-	
Anonymous	12/3/2017 23:46	Not Correlated						
Anonymous	12/4/2017 23:14	12/4/2017 23:15	21R	D	B190	N347AF	NMS 2	70.2
Anonymous	12/5/2017 6:53	12/5/2017 6:52	21L	D	C560	N830QS	-	
Terry	12/5/2017 8:11	12/5/2017 20:10	21L	D	BE58	N854C	NMS 2	76.5
Anonymous	12/5/2017 22:37	12/5/2017 22:37	21L	D	SW4	AMF708	NMS 3	73.3

Name	Reported Offense Time	Correlated Flight Time Recorded	Rwy	Op Type	Aircraft Type	Flight ID	NMS	Lmax
Anonymous	12/6/2017 0:35	12/6/2017 0:35	21L	D	C208	N208LS	NMS 3	77.3
Anonymous	12/6/2017 23:03	12/6/2017 23:03	21L	D	BE20	N771MG	NMS 3	79.1
Anonymous	12/7/2017 0:20	12/7/2017 0:20	3R	Α	AC50	CTL67	-	
Anonymous	12/7/2017 0:53	12/7/2017 0:53	21L	D	C208	N208LS	NMS 2	74.3
Anonymous	12/7/2017 2:49	12/7/2017 2:49	21L	D	PC12	N543PB	NMS 3	71.8
Anonymous	12/7/2017 5:53	12/7/2017 5:54		0	UNK	UNK	NMS 2	67.2
Anonymous	12/7/2017 6:02	12/07/2017 06:02:49	UNK	Α	B206	N2AQ	-	
Anonymous	12/7/2017 23:35	12/07/2017 23:35:06	21L	A	AC50	CTL67	-	
Anonymous	12/8/2017 3:29	12/8/2017 3:28		0	B747	HL7629	-	
Anonymous	12/8/2017 6:07	12/07/2017 06:07:55	21L	D	PC12	N444CM	NMS 3	70.4
Sheffield	12/9/2017 0:30	Not Correlated						
Sheffield	12/9/2017 0:40	Not Correlated						
Sheffield	12/9/2017 0:44	Not Correlated						
Anonymous	12/10/2017 22:04	12/07/2017 22:04:24	21L	D	BE20	N571TM	NMS 3	77.3
Anonymous	12/11/2017 0:00	12/11/2017 00:00:09	UNK	D	C208	N208LS	-	
Sheffield	12/11/2017 0:41	Not Correlated						
Anonymous	12/11/2017 6:21	12/11/2017 06:21:50	21L	D	BE20	N503GF	NMS 3	71.1
Williams	12/11/2017 20:47	12/11/2017 20:46		0	UNK	UNK	-	
Anonymous	12/11/2017 22:34	12/11/2017 22:34:53	21L	D	C335	N335SM	-	
Anonymous	12/11/2017 23:15	12/11/2017 23:15:43	21L	D	BE40	N472LX	-	
Anonymous	12/12/2017 2:08	12/12/2017 02:12:39	21L	A	PC12	N543PB	NMS 1	86.7
Anonymous	12/12/2017 3:20	12/12/2017 03:20:26	21L	D	PC12	N543PB	-	

Name	Reported Offense Time	Correlated Flight Time Recorded	Rwy	Op Type	Aircraft Type	Flight ID	NMS	Lmax
Anonymous	12/12/2017 4:14	12/12/2017 04:14:54	21L	D	LJ60	N502AB	NMS 3	73.2
Fox	12/12/2017 5:20	12/15/2017 5:28	21L	D	BE40	N156RK	NMS 3	80.9
Hays	12/12/2017 5:28	12/12/2017 5:28	21L	D	BE40	N156RK	NMS 2	80.9
Ruben	12/12/2017 5:30	12/12/2017 5:29	21L	D	BE40	N156RK	NMS 2	80.9
Anonymous	12/12/2017 6:18	12/12/2017 06:25:12	21L	D	ASTR	N114SN	-	
Fox	12/12/2017 6:25	12/12/2017 6:25	21L	D	G100	N114SN	-	
Anonymous	12/12/2017 6:53	12/12/2017 06:53:16		0	BE35	N9693Y	NMS 3	72.3
Anonymous	12/12/2017 22:07	12/12/2017 22:08:29	UNK	D	МВВВК	N445CH	-	
Anonymous	12/13/2017 0:21	12/13/2017 00:23:28	21L	Α	AC50	CTL67	-	
Anonymous	12/13/2017 1:01	12/13/2017 01:01:16	21R	D	C208	N208LS	-	
Sheffield	12/13/2017 2:00	Not Correlated						
Anonymous	12/13/2017 2:24	12/13/2017 02:13:15	3R	Α	PC12	N543PB	NMS 3	70.7
Anonymous	12/13/2017 6:41	12/13/2017 06:41:41		0	UNK	UNK	NMS 3	70.6
Anonymous	12/13/2017 22:01	12/13/2017 22:01:59		0	МВВВК	N445CH	-	
Anonymous	12/13/2017 22:07	12/13/2017 22:07:41	21R	D	UNK	UNK	-	
Anonymous	12/13/2017 22:10	12/13/2017 22:10:50	21R	D	UNK	UNK	-	
Anonymous	12/13/2017 22:14	12/13/2017 22:14:25	21R	D	UNK	UNK	-	
Anonymous	12/13/2017 22:17	12/13/2017 22:17:31	21R	D	UNK	UNK	NMS 3	69.4
Anonymous	12/14/2017 1:30	12/14/2017 01:30:46	3L	Α	AS50	N608HF	NMS 3	68.0
Anonymous	12/14/2017 3:01	12/14/2017 03:01:30	21L	D	PC12	N543PB	NMS 3	71.8
Anonymous	12/14/2017 6:18	Not Correlated						
Anonymous	12/14/2017 6:54	12/14/2017 06:54:42	21R	D	PC12	N879AF	NMS 2	69.7

Name	Reported Offense Time	Correlated Flight Time Recorded	Rwy	Op Type	Aircraft Type	Flight ID	NMS	Lmax
Anonymous	12/14/2017 13:27	12/14/2017 13:26	UNK	D	UNK	UNK	NMS 4	80.2
McCoy	12/14/2017 17:58	12/14/2017 17:57	3L	Α	UNK	UNK	-	
Chilivis	12/15/2017 1:20	12/15/2017 1:20		0	МВВВК	N445CH	NMS 2	68.3
Anonymous	12/15/2017 1:21	12/15/2017 01:22:03	21L	D	UNK	UNK	-	
Anonymous	12/15/2017 1:59	12/15/2017 01:59:19	21L	Α	PC12	N543PB	NMS 1	86.0
Fox	12/15/2017 3:21	12/15/2017 3:21	3R	Α	PC12	N543PB	NMS 2	74.9
Anonymous	12/15/2017 3:21	12/15/2017 03:21:53	21L	D	PC12	N543PB	NMS 2	74.9
Anonymous	12/15/2017 12:38	12/15/2017 12:37	34	D	C680	N568VA	-	
Anonymous	12/16/2017 0:09	12/16/2017 00:09:50	21L	D	C525	N525RM	NMS 3	75.2
Anonymous	12/16/2017 0:21	12/17/2017 00:25:55	21R	Α	AC50	CTL67	NMS 1	81.9
Anonymous	12/16/2017 0:29	12/16/2017 00:29:34	21L	D	C208	N208LS	NMS 2	77.5
Anonymous	12/16/2017 0:39	12/16/2017 00:39:53	3R	Α	B206	N887AE	NMS 3	69.0
Anonymous	12/16/2017 1:59	12/16/2017 01:59:27	21L	Α	PC12	N676PC	NMS 3	68.7
Anonymous	12/16/2017 3:17	12/16/2017 03:17:53	21L	D	PC12	N676PC	NMS 2	74.6
Anonymous	12/16/2017 22:08	Not Correlated						
Anonymous	12/16/2017 22:21	12/16/2017 22:21:46	UNK	D	UNK	UNK	-	
Sheffield	12/17/2017 12:00	Inc. in Activity						
Anonymous	12/18/2017 0:13	12/18/2017 00:13:54	21L	D	SR22	N553LB	NMS 3	76.8
Anonymous	12/18/2017 0:42	12/18/2017 00:42:16	21L	D	GLF5	N900LY	-	
Anonymous	12/18/2017 1:23	12/18/2017 01:20:42	21L	D	GLF4	N455MB	-	
Floyd	12/18/2017 17:01	12/18/2017 17:27	UNK	D	UNK	UNK	-	
Floyd	12/18/2017 17:54	12/18/2017 17:34	UNK	D	UNK	UNK	NMS 1	66.1

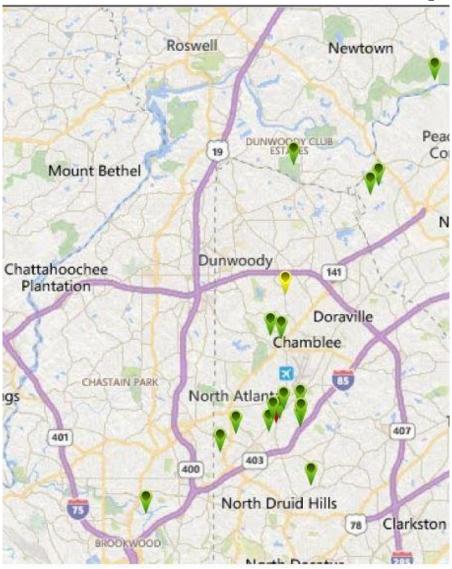
Name	Reported Offense Time	Correlated Flight Time Recorded	Rwy	Op Type	Aircraft Type	Flight ID	NMS	Lmax
Floyd	12/18/2017 18:17	12/18/2017 17:39	UNK	D	UNK	UNK	-	
Anonymous	12/18/2017 22:59	12/18/2017 22:59:21	21L	D	C208	N208LS	NMS 2	75.3
Jane	12/19/2017 0:00	Not Correlated						
Anonymous	12/19/2017 6:59	12/19/2017 06:59:40	21L	D	CL30	N773RC	NMS 3	76.8
Anonymous	12/19/2017 23:25	12/19/2017 23:25:36		0	BE40	N1PU	NMS 1	93.0
Rodrigues	12/27/2017 10:33	12/27/2017 10:31:32	21L	D	GLAS	N3HV	-	
Anonymous	Inc in Activity	Inc. in Activity					-	

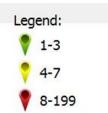
^{*}Note: There were several indirect operations that occurred during PDK's voluntary curfew operations which received complaints. However, as these operations did not land or takeoff at PDK, they were not considered to be voluntary curfew operations. Those correlations that are PDK voluntary curfew operations are highlighted in yellow.

Please contact: *Nate Schattner, Airport Noise and Environmental Analyst*, for more information regarding the PDK Good Neighbor Program at (770) 936-5440 or neschattner@dekalbcountyga.gov.

PDK maintains a hotline that permits residents to report usually, loud aircraft over-flights by dialing: **(770) 936-5442** or by e-mail: pdknoise@dekalbcountyga.gov.

Disturbance Location Pin Map





21 Complainants with 95 Complaints Total

(Unknown addresses not shown)

Monthly Noise Levels at Monitors



Noise Terminology

- Decibels (dB) are the unit of measurement on the loudness scale. Decibels that a human can hear are called "A-weighted" or "dBA" on the sound frequency scale.
- The decibel scale is logarithmic, not linear. The smallest detectable change 1 dB; 3 dB for a human is readily detectable; 10 dB seems twice as loud.
- Lmax The maximum A-weighted sound level for a given event the highest level registered on the scale or meter; is not related to the duration for the event.
- DNL A 24-hour time-averaged sound exposure level. It is the noise metric of choice in aircraft sound level measurement. It is also used to define noise contours of equal exposure. All Federal agencies have adopted DNL (LDNA) as the metric for airport noise analysis. (Day Night Level) (Day Night Level A-weighted)
- Leq The steady A-weighted sound level over any specified period. It is used to identify the average sound level over a given period of time.

Voluntary Curfew Operations & Operators Summary/Letter Status

Operations Summary:

The airport identified a total of **272** (96.8%) of the **281** operations during the voluntary curfew period (11PM-6AM) during the month of **December 2017**. Of the **272** identified operations, **131** (48.2%) were classified as **medical transport** (e.g., **MedEvac**) or other critical flights. These aircraft are identified in **red bold font** below.

- Out of the *identified* operations, **77 one-time** operations were conducted during this period.
- Out of the *identified* operations, **195 multi-time** operations were conducted during this period, (i.e. an operator conducting (2) or more operations during this period).

Operators Identified / Multi-Use:

123 operators were identified using the airport during the voluntary curfew period.

46 operators were identified using the airport during the voluntary curfew period for 2 or more times during the month.

21 multi-use operators were identified as MedEvac and/or emergency flights.

Complaints received from operations conducted during the voluntary curfew period:

95 complaints were received during December 2017.

40 complaints were received for operations conducted during the voluntary curfew period (excludes indirect and non-correlated complaints).

This Month - December 2017 N#'s (Multi-Use):

<u>25 Aircraft with 2 Operations</u> (N550AJ, N3375R, **N887AE**, N652KA, **N352SR**, N329GS, **N895CR**, N826JM, N501RG, **N424MA**, N724GT, N4455M, N301ML, N11934, N57MV, N423TJ, N931GG, **N442GJ**, N766RA, N525LX, **N304JT**, N178AM, N113WJ, N67WE, N517CC)

8 Aircraft with 3 Operations (N54AE, N700NA, N498SR, N700PL, N763DB, N395AB, N310, N626DS)

4 Aircraft with 4 Operations (N244JS, N777CM, N202BC, N891AA)

2 Aircraft with 5 Operations (N324RR, N683GA)

1 Aircraft with 11 Operations (N445CH)

1 Aircraft with 16 Operations (N365LH)

1 Aircraft with 22 Operations (N127KH)

1 Aircraft with 23 Operations (N373KM)

1 Aircraft with 33 Operations (N208LS)

Last Month - November 2017 N#'s (Multi-Use):

<u>27 Aircraft with 2 Operations</u> (N127KH, N135SH, N125JF, N329GS, N691ES, N955H, N244LJ, N224FD, N401SM, N72GR, N608HF, N763JA, N472LX, N451N, N887AE, N68TJ, N402GJ, N51VT, N49HT, N769QS, N662MW, N6GD, N4049AE, N805LC, N942JT, N3005D, N945AC)

10 Aircraft with 3 Operations (N683GA, N608MM, N77CM, N9362M, N423AE, N518TM, N630KC, N732WB, N308QS, N619A)

3 Aircraft with 4 Operations (N16PC, N373KM, N498SR)

1 Aircraft with 6 Operations (N900PS)

1 Aircraft with 13 Operations (N445CH)

1 Aircraft with 14 Operations (N676PC)

1 Aircraft with 15 Operations (N922BS)

1 Aircraft with 16 Operations (N543PB)

1 Aircraft with 35 Operations (N208LS)

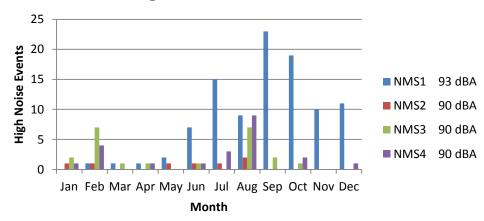
A total of **102** advisory letters were sent to aircraft operators flying during the voluntary curfew period in the month of December who were not identified as MedEvac and/or other emergency flights.

Note: Several of the aircraft who were not identified (i.e., unknown) had flight tracks terminating at hospitals. Although they are excluded from the tally above, it is very likely that many of these Unknown aircraft are MedEvac/medical flights.

High Noise Event Threshold

The high noise event threshold was developed to work with pilots in methods and techniques that could reduce aircraft noise levels in and around PDK and its residential areas. Noise Monitoring Station (NMS) 1 is located in a commercial district and is set at **93 dBA Lmax** or greater. All other monitors, NMS2, 3, & 4 are located in residential areas and are set at **90 dBA Lmax** or greater. A total of **11** advisory letters were sent this month for aircraft identified as exceeding PDK's high noise event threshold.

High Noise Events 2017



December 2017

<u>10 Aircraft with 1 High Noise Event (N163LF, FHSAS, CGPOP, N39TL, CTL386, N30WR, N208LS, N589H, N686AG, N392SR)</u>

1 Aircraft with 2 High Noise Events (N400CV)

November 2017

<u>10 Aircraft with 1 High Noise Event (N800EM, N707FJ, N208LS, N785AJ, N30WR, N686AG, N682GA, N8400E, N544CM, N470FJ)</u>

Comments/Concerns?

Please visit <u>www.pdkairport.org</u> for airport information. You may also contact the airport about noise concerns at <u>pdknoise@dekalbcountyga.gov</u> or call the noise hotline at (770) 936-5442.



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